

Algebra II
Relations and Functions

Name _____

WS # 1

Directions: State the domain and range of the relations.

1. $\{(-1,1), (-2,2), (-3,3), (-4,4)\}$

2. $\{(6,3), (4,1), (2,-1), (0,-3)\}$

3. $\{(0,-2), (2,0), (3,1), (5,3)\}$

4. $\{(-1,3), (-2,1), (-3,-3), (-4,-5)\}$

Directions: Write a rule for each relation and state its domain and range.

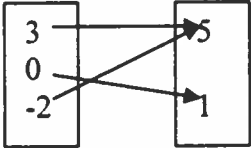
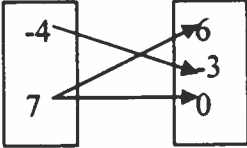
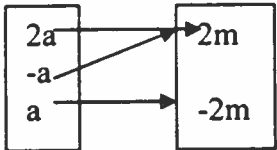
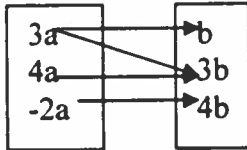
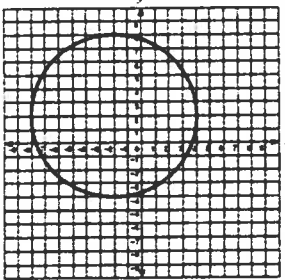
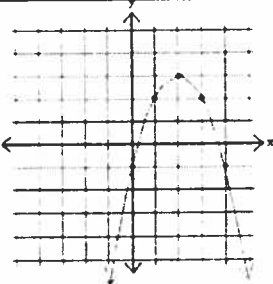
5. $\{(0,4), (1,5), (2,6), (3,7)\}$

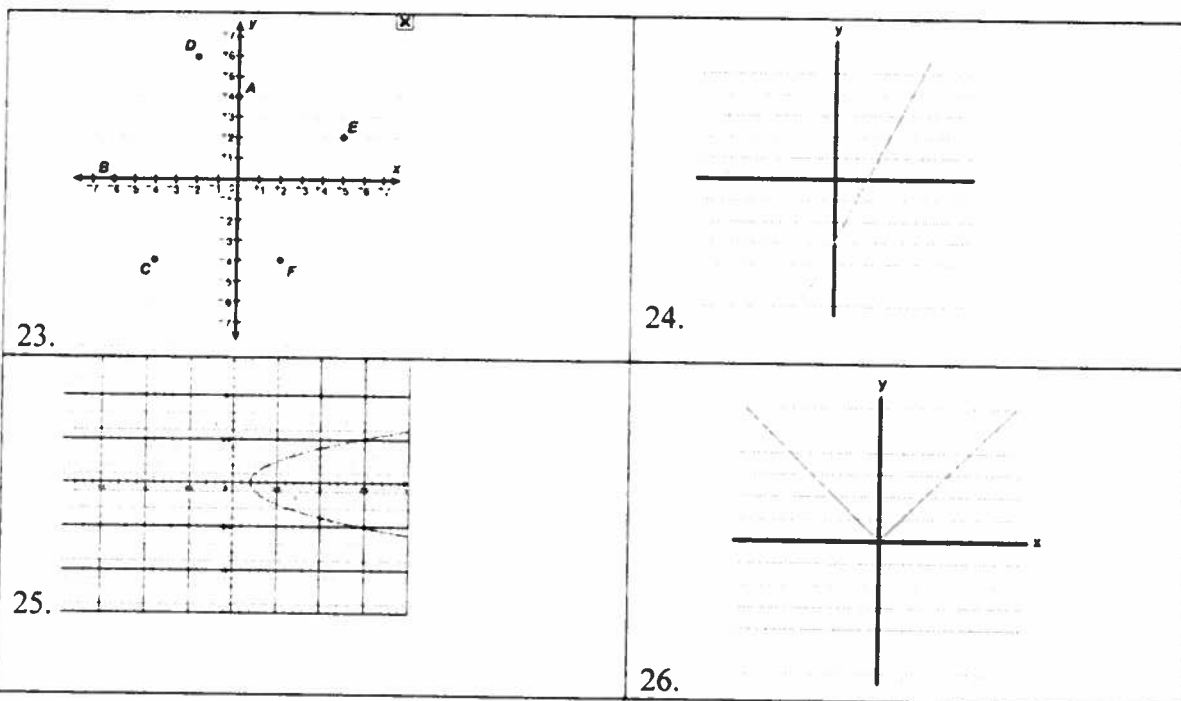
6. $\{(2,8), (3,12), (4,16)\}$

7. $\{(1,-2), (2,-1), (4,1), (5,2)\}$

8. $\{(-1,3), (-2,1), (-3,-3), (-4,-5)\}$

9. $\{(-2, -6), (-4, -12), (6, 18)\}$
10. $\{(1, -2), (2, -4), (-1, 2)\}$
11. $\{(-1, -1), (0, 1), (2, 5), (3, 7)\}$
12. $\{(2, 1), (1, -1), (-1, -5), (-2, -7)\}$

Directions: Determine which, if any, of the following relations are functions.	
13. $M = \{(2, 4), (4, 8), (8, 16)\}$	14. $T = \{(-1, 2), (-2, 5), (-2, 7)\}$
15. Domain Range 	16. Domain Range 
17. $\{(x, y) : y = 0\}$	18. $\{(x, y) : x = 2\}$
19. Domain Range 	20. Domain Range 
21. 	22. 



Directions: Write a rule for each relation.

27. $\{(-1,1), (-2,2), (0,0), (1,1), (2,2)\}$

28. $\{(0,0), (-1,1), (1,1), (-2,4), (2,4)\}$

29. $\{(0,0), (-1,-1), (-2,-8), (-3,-27)\}$

30. $\{(-2,8), (-1,1), (0,0), (1,1), (2,8)\}$